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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/716,544	11/20/2003	Teresa H. Meng	MR2919-9/C	5671
7590 Rosenberg, Klein & Lee Suite 101 3458 Ellicott Center Ellicott City, MD 21043	06/24/2008		EXAMINER HAILE, FEBEN	
			ART UNIT 2616	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/716,544	MENG, TERESA H.	
	Examiner	Art Unit	
	Feben M. Haile	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 12 June 2008.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 43-54 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 43-54 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____ .	5) <input type="checkbox"/> Notice of Informal Patent Application
	6) <input type="checkbox"/> Other: _____ .

DETAILED ACTION

Response to Amendment

1. In view of applicant's amendment filed June 12, 2008, the status of the application is still pending with reference to claims 43-54.

2. The amendment filed is insufficient to overcome the rejection of claims 43-54 based upon based upon Schiff (US 6,449,463), Javitt et al. (US 5,805,585), and I et al. (US 6,088,335) as set forth in the last Office action because: the claimed invention fails to clarify a distinction between the Applicants invention and the cited references, thus the subject matter is not patentable.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 43-54 rejected under 35 U.S.C. 103(a) as being unpatentable over Schiff (US 6,449,463), hereinafter referred to as Schiff, in view of Javitt et al. (US 5,805,585), hereinafter referred to as Javitt, in view of reference I et al. (US 6,088,335), hereinafter referred to as I.

Regarding claim 43, Schiff discloses a first transceiver (**figure 1 unit 102; a transceiver**); and a second transceiver (**figure 1 unit 104; a transceiver**), the second

transceiver including: second means for receiving the first communication data (**figure 3 unit 110; a receiver 110 in the transceiver 104**); second means for sensing a received power level of the received data (**figure 3 unit 314; a measurement element 302 in the transceiver 104; column 5 line 64-column 6 line 3; measures of signal power**).

Schiff fails to explicitly suggest means for transmitting first communication data at a first power level and a first data rate, means for transmitting second communication data at a second power level and a second data rate; and second means for determining the second data rate at which to transmit the second data, said second data rate determined based upon the received power level of the received data and being different from the first data rate.

Javitt teaches means for transmitting first communication data at a first power level and a first data rate to said second transceiver (**column 4 lines 29-41; communicating data in a first mode with a first power level and a first data rate**), means for transmitting second communication data at a second power level and a second data rate (**column 4 lines 42-46; communicating data in a second mode with a second power level and a second data rate**); means for determining the second data rate at which to transmit the second data (**column 4 lines 46-52; coding gain is decreased by a given amount to provide a given data rate above that provided in the first communication mode and the transmit power level is increased to a level to maintain a given BER**).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the multi-rate packet data method operable to change communications modes taught by Javitt into the variable loop power control transceiver system disclosed by Schiff. The motivation for such a modification is increasing system performance and efficiency.

Schiff, Javitt, and/or their combination fail to explicitly suggest said second data rate determined based upon the received power level of the received first communication data to be adaptively adjusted responsive to a distance between first and second, second data rate being different from the first data rate.

I teaches said second data rate determined based upon the received power level of the received first communication data to be adaptively adjusted responsive to a distance directly between first and second (**column 10 line 45-column 11 line 11; a rate decision between a mobile station and base station is determined using a load condition, i.e. pilot strength measurements including a power level of base stations, and a distance of the data user to the base station**), second data rate being different from the first data rate (**figure 9**).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the method suggest by I into the variable loop power control transceiver system disclosed by Schiff as modified by the multi-rate packet data method operable to change communications modes taught by Javitt. The motivation for such a modification is a reduction in interference, thus increasing system capacity.

Regarding claim 44 Schiff discloses transmitting communication data from a first transceiver to a second transceiver (**figure 1 units 102 and 104**); receiving the communication data at the second transceiver (**figure 3 unit 110; a receiver 110 in the transceiver 104**); sensing the received power level of the received communication data (**figure 3 unit 314; a measurement element 302 in the transceiver 104; column 5 line 64-column 6 line 3; measures of signal power**); receiving the other data at the first transceiver (**figure 2 unit 108; a receiver 116 in the transceiver 102**).

Schiff fails to explicitly suggest transmitting data at a first power level and a first data rate; determining a second data rate different from the first data rate at which to transmit other data, said second data rate determined based upon the received power level of the received data; and transmitting the other data at the second data rate and a second power level.

Javitt teaches transmitting data at a first power level and a first data rate (**column 4 lines 29-41; communicating data in a first mode with a first power level and a first data rate**); determining a second data rate different from the first data rate at which to transmit other data (**column 4 lines 42-46; communicating data in a second mode with a second power level and a second data rate**), said second data rate determined based upon the received power level of the received data (**column 4 lines 46-52; coding gain is decreased by a given amount to provide a given data rate above that provided in the first communication mode and the transmit power level is increased to a level to maintain a given BER**); and transmitting the data at

the second data rate and a second power level (**column 4 lines 52-55; high rate communication in the second mode**).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the multi-rate packet data method operable to change communications modes taught by Javitt into the variable loop power control transceiver system disclosed by Schiff. The motivation for such a modification is increasing system performance and efficiency.

Schiff, Javitt, and/or their combination fail to explicitly suggest said second data rate determined based upon the received power level of the received communication data to be adaptively adjusted in dynamic manner responsive to a distance directly between first and second said transceivers.

I teaches said second data rate determined based upon the received power level of the received communication data to be adaptively adjusted in dynamic manner responsive to a distance directly between first and second said transceivers (**column 10 line 45-column 11 line 11; a rate decision between a mobile station and base station is determined using a load condition, i.e. pilot strength measurements including a power level of base stations, and a distance of the data user to the base station**).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the method suggest by I into the variable loop power control transceiver system disclosed by Schiff as modified by the multi-rate packet data

method operable to change communications modes taught by Javitt. The motivation for such a modification is a reduction in interference, thus increasing system capacity.

Regarding claim 45, Javitt discloses wherein the second power level is different than the first power level (**figure 1 and column 4 lines 8-15; communication mode 12 has a greater power level than communication mode 11**).

Regarding claim 46, Schiff discloses transmitting communication data from a first transceiver to a second transceiver (**figure 1 units 102 and 104**): receiving the communication data at the second transceiver (**figure 3 unit 110; a receiver 110 in the transceiver 104**); sensing the received power level of the received data (**figure 3 unit 314; a measurement element 302 in the transceiver 104; column 5 line 64-column 6 line 3; measures of signal power**); and further including the step of: receiving the other data at the first transceiver (**figure 2 unit 108; a receiver 116 in the transceiver 102**).

Schiff fails to explicitly suggest transmitting data at a first power level and a first data rate from a first transceiver to a second transceiver; determining a second data rate different from the first data rate at which to transmit other data, said second data rate determined based upon the received power level of the received data; and transmitting the other data at the second data rate and a second power level.

Javitt teaches transmitting data at a first power level and a first data rate from a first transceiver to a second transceiver (**column 4 lines 29-41; communicating data in a first mode with a first power level and a first data rate**); determining a second data rate different from the first data rate at which to transmit other data (**column 4**

lines 42-46; communicating data in a second mode with a second power level and a second data rate), said second data rate determined based upon the received power level of the received data (**column 4 lines 46-52; coding gain is decreased by a given amount to provide a given data rate above that provided in the first communication mode and the transmit power level is increased to a level to maintain a given BER**); and transmitting the data at the second data rate and a second power level (**column 4 lines 52-55; high rate communication in the second mode**).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the multi-rate packet data method operable to change communications modes taught by Javitt into the variable loop power control transceiver system disclosed by Schiff. The motivation for such a modification is increasing system performance and efficiency.

Schiff, Javitt, and/or their combination fail to explicitly suggest said second data rate determined based upon the received power level of the received communication data to be adaptively adjusted in dynamic manner responsive to a distance directly between first and scone said transceivers.

I teaches said second data rate determined based upon the received power level of the received communication data to be adaptively adjusted in dynamic manner responsive to a distance directly between first and scone said transceivers (**column 10 line 45-column 11 line 11; a rate decision between a mobile station and base station is determined using a load condition, i.e. pilot strength measurements**

including a power level of base stations, and a distance of the data user to the base station).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the method suggest by I into the variable loop power control transceiver system disclosed by Schiff as modified by the multi-rate packet data method operable to change communications modes taught by Javitt. The motivation for such a modification is a reduction in interference, thus increasing system capacity.

Although Javitt suggests the transmitting unit sending an escape sequence to instruct the receiving unit to change communications modes, it would have been obvious to one having ordinary skill in the art at the time the invention was made that the step of determining occurs without the occurrence of a specific request for a data rate change. It has been held that providing an automatic means to replace manual activity, which accomplishes the same result, involves only routine skill in the art. Therefore Javitt explicitly discloses the limitation "without the occurrence of a specific request for a data rate change".

Regarding claim 47, Schiff discloses wherein the second power level is different than the first power level (**figure 1 and column 4 lines 8-15; communication mode 12 has a greater power level than communication mode 11**).

Regarding claim 48, Schiff discloses the limitations of the base claims and further suggests adjusting the power by a predetermined amount depending on the measured received power of a signal (**column 6 lines 14-31**).

At the time the invention was made, it would have been obvious to one having ordinary skill in the art that the rate at which data can be transmitted is directly proportional to the amount of power. Therefore Schiff explicitly suggests wherein the second data rate is chosen from one of a plurality of predetermined data rates

Regarding claim 49, Schiff discloses the limitations of the base claims and further suggests adjusting the power by a predetermined amount depending on the measured received power of a signal (**column 6 lines 14-31**).

At the time the invention was made, it would have been obvious to one having ordinary skill in the art that the rate at which data can be transmitted is directly proportional to the amount of power. Therefore Schiff explicitly suggests wherein the steps of sensing the received power level of the received data and determining the second data rate are performed by the second transceiver.

Regarding claim 50, Schiff discloses the limitations of the base claims and further suggests adjusting the power by a predetermined amount depending on the measured received power of a signal (**column 6 lines 14-31**).

At the time the invention was made, it would have been obvious to one having ordinary skill in the art that the rate at which data can be transmitted is directly proportional to the amount of power. Therefore Schiff explicitly suggests wherein the step of transmitting the other data will transmit at the second data rate that is chosen from one of a plurality of predetermined data rates.

Regarding claim 51, Schiff discloses wherein the steps of sensing and determining are performed by the second transceiver (**figure 3 unit 104; figure 3 unit 314; a measurement element in the transceiver 104**).

Regarding claim 52, Schiff as modified by Javitt disclose the limitations of the base claim being performed within wireless communication systems.

At the time the invention was made, the FCC made available 300 MHz of spectrum for Unlicensed National Information Infrastructure devices located at 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.725-5.825 GHz, for use in wireless communications. Therefore it would have been obvious to one having ordinary skill in the art that data could be transmitted using the 5.725-5.825 GHz band. The motivation is to share spectrum with incumbent services without causing radio interference to those services.

Regarding claim 53, Schiff as modified by Javitt disclose the limitations of the base claim being performed within wireless communication systems.

At the time the invention was made, the FCC made available 300 MHz of spectrum for Unlicensed National Information Infrastructure devices located at 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.725-5.825 GHz, for use in wireless communications. Therefore it would have been obvious to one having ordinary skill in the art that data could be transmitted using one of the 5.25-5.35 GHz and 5.15-5.25 GHz bands. The motivation is to share spectrum with incumbent services without causing radio interference to those services.

Regarding claim 54, Javitt discloses wherein the first power level is greater than the second power level (**figure 1 and column 4 lines 8-15; communication mode 12 has a greater power level than communication mode 11**).

Response to Argument

4. Applicant's arguments filed June 12, 2008 have been considered but are not persuasive.

The Applicant respectfully traverses I et al. fails to remedy the deficiencies of the Schiff and Javitt references, specifically the limitation "said second data rate determined based upon the received power level of the received communication data to be adaptively adjusted in dynamic manner responsive to a distance directly between first and second said transceivers". The Examiner respectfully disagrees with the Applicant. I et al. teaches an **adaptive data rate adjustment** method between a mobile station and base station using a load condition, i.e. pilot strength measurements including **power level of base stations**, and a **distance of the data user to the base station**. Therefore as the claims are interpreted in their broadest sense, the Examiner believes that I et al. indeed does render the Applicant's invention obvious.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Feben M. Haile whose telephone number is (571) 272-3072. The examiner can normally be reached on 10:00am - 6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Aung S. Moe can be reached on (571) 272-7314. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Aung S. Moe/
Supervisory Patent Examiner, Art Unit 2616

/Feben M Haile/
Examiner, Art Unit 2616